ABSTRACT

For the purpose to promote proliferation of a plant cell, a novel gene is provided by this invention. This invention provides a precursor polypeptide of phytosulfokine that enhances proliferation of a plant cell derived from Arabidopsis Thaliana, named AtPSK2 polypeptide. This invention further provides AtPSK2 gene that encodes the AtPSK2 polypeptide. Moreover, this invention provides another precursor polypeptide of phytosulfokine that enhances proliferation of a plant cell derived from Arabidopsis Thaliana, named AtPSKL polypeptide. This invention further provides AtPSKL gene that encodes the AtPSKL polypeptide. Proliferation of a plant cell can be achieved by incorporation of the gene according to this invention.